OTPANI'ZOMAI

OR, AN

Almanack and Prognostication

for the year of our Lord 1651.

Being the third from Bissextile or Leap-year, and from the Creation of the World, 5600.

Wherein (besides the state of the whole year) you may behold many usefull, pleasant and necessary observations, being requisite for men of all sorts;

Though particularly commended,

As usefull, not onely to Astronomers and Astrologers, but also to Divines, Physitians, Historiographers, Polititions, Poets, and Husbandmen.

Calculated (according to Art) for the Meridian and latitude of *Uppingham* in *Rutland*, where the pole Artick is elevated above the Horizon 52. degr. 40 min. and may serve generally for any part of Great Britain.

By *Vincent Wing* Mathemat.

Die ac nocte, verbum & opera Jehovæ meditabor.

LONDON;
Printed by J.L. for the Company of Stationers. 1651.

BIBLIOTHECA BODLEIANA

Common Notes observable for this present year 1651. according to

The Julian, English, or old account.		The Gregorian, Forreign, or new account.
18	The Golden number	18
8	The Cycle of the Sun	8
18	The Epact	8
ℂ	The Dominical Letter	ℝ
4	The Roman Indiction	4
Six weeks four days.	From Christs birth to Shrove-Sunday.	Eight weeks.

A Table to know when the Terms begin and end, the number of their Returns, with the day of the moneth whereon they will be this present year, 1651.

Hillary Terme begins the 23. of January, and ends the 12. of February, and hath 4. Returns, viz.	Octab. Hillarii	Ianuary 20
	Quind. Hillarii.	Ianuary 27
	Craft. Purif.	February 3
	Octab. Purif.	February 10
Easter Term begins the first day of May, and ends the twenty seventh of May, and hath five Returns. viz.	Quind. Paschæ.	April 14
	Tres Paschæ.	April 21
	Mense Paschæ.	April 28
	Quind. Paschæ.	May 5
	Craft. Ascens.	May 9
Trinity Terme begins the 14. of June. and ends the 3. of July, and hath four Returns. viz.	Craft. Trinit.	May 27
	Octabis Trin.	Iune 2
	Quind. Trin.	Iune 9
	Tres Trin.	Iune 16
Michaelmas Terme begins October 23. and ends the 28 of November, and hath 6. Returns, viz.	Tres Michael.	October 21
	Mense Mich.	October 28
	Craft. Animar.	November 3
	Craft. Mart.	Novemb. 12
	Octab. Mart.	Novemb. 18
	Quind. Mart.	Novemb. 25

A Table shewing the Bearing, Distance, (and longest day) of divers of the chiefest Cities in the World, from the famous City of *London*.

The names of the places.	The way they beare	Their distan. miles.	Longest day. Ho.	min.
Alexandria in *Ægypt*	S. E. by E.	2169	14	0
Amsterdam	E. by N.	266	16	40
Antwerp	East *fere*	248	16	28
Athens	S. E. by E.	1624	14	40
Barwick	North *fere.*	367	17	24
Babylon	Ea. So. East.	2724	14	25
Bethsaida	Sou. Ea. by Ea.	2309	14	6
Calecute in *India*	Sou. Ea. by Ea.	5214	12	20
Cambridge	North by Ea.	44	16	34
Carlile	Nor. by Wea.	224	17	0
Calice in *France*	East by Sou.	86	16	25
Constantinople	East, So. Ea.	1547	15	15
Dover	East by Sou.	49	16	25
Dublin in *Ireland*	NorW. by W.	296	17	25
Damascus	East, So. East.	2404	14	15
Edinburge in *Scotland*	North.	328	17	40
Ephesus	East, So. East.	1808	14	40
Florence.	South East.	801	15	10
Hamburgh	East, Nor. Ea.	538	17	18
Hierusalem	Sou. Ea. by E.	2352	14	4
Lake of Sodom	Sou. Ea. by E.	2404	14	8
Middleburgh	East.	205	16	30
Naples in *Italy*	Sou. Ea. by E.	1051	14	50
Nineveh	East, Sou. Ea.	2635	14	30
Oxford	North West.	47	16	28
Paris in *France*	South, So. Ea.	215	15	57
Prague in *Bohemia*	East *fere.*	700	16	15
Quinzoy	East by Sou.	7272	13	35
Rome	Sou. E. by E.	887	15	4
Troy	East, Sou. East.	1605	15	0
Venice	East, Sou. East.	744	15	28
Yorke	North.	150	16	54

A Table shewing the houres and minutes of the Moons coming to the South, the first 6. moneths of this year 1651.

Day	January. hou. min.	February hou. min.	March. hou. min.	April. ho. min.	May ho. min.	June ho. min.
1	3 M. 5	3 M. 56	2 M 47	4 M 27	5 M 32	6 M 45
2	3 48	4 45	3 38	5 36	6 24	7 32
3	4 31	5 38	4 34	6 34	7 15	8 19
4	5 16	6 34	5 31	7 29	8 2	9 6
5	6 3	7 33	6 31	8 22	8 50	9 54
6	6 54	8 34	7 30	9 13	9 38	10 44
7	7 49	9 36	8 28	10 2	10 25	11 33
8	8 49	10 36	9 25	10 51	11 12	0 A 25
9	9 52	11 33	10 21	11 40	0 A 2	1 15
10	10 55	0 A 28	11 13	0 A 28	0 54	2 2
11	11 58	1 19	0 A 3	1 18	1 44	2 50
12	0 A 57	2 8	0 54	2 8	2 35	3 35
13	1 52	2 58	1 41	3 c	3 24	4 17
14	2 44	3 45	2 31	3 51	4 12	5 0
15	3 33	4 34	3 20	4 41	4 58	5 40
16	4 21	5 21	4 11	5 25	5 42	6 21
17	5 7	6 12	5 0	6 17	6 25	7 8
18	5 52	7 1	5 50	7 3	7 9	7 54
19	6 39	7 50	6 41	7 48	7 51	8 46
20	7 26	8 39	7 29	8 31	8 35	9 41
21	8 16	9 28	8 17	9 15	9 23	10 43
22	9 4	10 15	9 2	9 59	10 13	11 46
23	9 54	10 59	9 47	10 45	11 7	12 51
24	10 43	11 45	10 31	11 35	12 9	mor. 51
25	11 30	12 30	11 15	12 29	mor. 9	1 55
26	12 17	mor. 30	12 1	mor. 25	1 15	2 52
27	mor. 17	1 11	mor. 1	1 30	2 19	3 45
28	0 59	1 58	0 50	2 33	3 20	4 35
29	1 42		1 41	3 35	4 16	5 23
30	2 25		2 39	4 34	5 9	6 10
31	3 10		3 37		5 57	

A

A Table shewing the hour and minute of the Moons coming to the South the last six months of this yeare 1651.

	July. hou. min.	August. hou. min.	Septem. hou. min.	Octob. ho. min.	Novem. ho. min.	Decem. ho. min.
1	6 M. 58	8 M 13	9 M 30	9 M. 46	10 M. 36	10 M 49
2	7 46	9 3	10 1	10 29	11 2	11 47
3	8 36	9 52	0 55	11 11	0 A. 16	0 A 43
4	9 26	10 40	11 41	11 57	1 11	1 41
5	10 16	11 25	0 A 24	0 A 43	2 10	2 47
6	11 6	0 A 11	1 7	1 32	3 11	3 45
7	11 54	0 54	1 52	2 25	4 10	4 39
8	0 A 41	1 35	2 35	3 19	5 7	5 31
9	1 27	1 18	3 28	4 17	6 2	6 19
10	2 10	2 4	4 20	5 16	6 53	7 5
11	2 54	2 45	5 15	6 15	7 43	7 50
12	3 34	3 31	6 14	7 11	8 3	8 40
13	4 16	4 21	7 15	8 5	9 21	9 31
14	5 0	5 15	8 14	8 59	10 11	10 21
15	5 4	7 11	9 14	9 51	10 58	11 13
16	6 35	8 14	10 10	10 41	11 45	12 4
17	7 27	9 16	11 4	11 31	12 41	mor. 4
18	8 23	10 15	11 55	12 22	mor. 41	0 58
19	9 24	11 18	12 46	mor. 22	1 39	1 48
20	10 27	12 15	mor. 46	1 13	2 31	2 30
21	11 31	mor. 15	1 39	2 6	3 20	3 13
22	12 33	1 7	2 31	3 0	4 6	3 54
23	mor. 33	1 58	3 34	3 54	4 49	4 35
24	1 30	2 49	4 16	4 45	5 32	5 15
25	2 24	3 39	5 8	5 32	6 13	5 57
26	3 15	4 31	5 58	6 17	6 54	6 41
27	4 5	5 23	6 47	7 1	7 37	7 29
28	4 54	6 14	7 35	7 43	8 19	8 20
29	5 43	7 6	8 19	8 25	9 1	9 16
30	6 32	7 55	9 2	9 7	9 54	10 15
31	7 21	8 44		9 51		11 17

A Tide Table, wherein is shewed what Moon makes a Full Sea, and in what houre and minute in any of these places hereunder written.

Quinborough, Southampton, Portf. Wellens, Rochester, Maldon, Aberden, Redban, Gravesend, Romney, Tenet, Ramkins, Downs, London, Tinmouth, Hartle-poole, Amsterdam, Barwick, Offend, Scarborough, Flushing, Font, Frith, Leith, Dunbar, Narbon, Silly, Mouth, Falmouth, Foy, Humber, Newcastle, Torbay, Lin, Antwerp, Pilmouth, Hull, Bristoll, Lanion, Fowleneſſe, Milford, Bridgewater, Northcoast, Exwater. Portland, Peterport, Hateſlew, Hague, Orckney-pool, S. Hellen, Orwell, Flee, Ebden, Orford, Needles, Deepe, Lux, Lenow, Casket, Dover, Yarmouth, Harwich, Dublin, Bulloine, Calice, Rye, Winchelſey, Calshot.

Moon.	H.	m.
So. and N.	0	0
So. by W.	0	45
So. So. W.	1	30
So. West.	3	0
S. W. by W	3	45
W. by So.	4	30
W. by So.	5	15
E. and W.	6	0
E. by So.	6	45
E. So. Ea.	7	30
S. E. by E.	8	15
Sou. East.	9	0
So E. by S.	9	45
S. S East.	10	30
So. by E.	11	15

The use of this Table by example.

THe 15 of *January* I desire to know at what time it will be full Sea at *Lin*; first I get the time of the Moons coming to the South by the preceding Table, which I find to be at 3 a clock, and 33 min. afternoon, then in this Table I seek for *Lin*, and right against it I find East and West, which sheweth that an East and West Moon maketh a full Sea there; also in the 3 Row I find 6 houres, which being added to 3 hours, 33 min. (the time of the Moons coming to the South the same day) the Sum will be 9 hours, and 33 min. for the time of full-Sea at *Lin* the said 15 of *January*. The like is to be observed of the rest.

But you are to note that the Tides do not alwaies fall out exactly at the time found in this Table, by reason of the difference of the Moons Latitude, boysterous winds, landfloods, &c, which may cause them to erre at some times from the time here is found; but this is the exactest Rule that can generally be given for the finding of them.

Radices

Radices mediorum motuum planetarum ad meridianum *Uppinghamiensem*, meridiémque Calendarum *Januarii* Anni *Juliani* 1651. tales reperiuntur,

	Juxta, Harmon Cæleſt				*Tab. philolaicas*			
	☌ s	d	′	″	☌ s	d	′	″
Motus primæ ♈ *Arietis*	0	28	19	26	0	28	19	26
Longitudo media ☉	9	20	51	41	9	20	50	10
Aphelium Solis	3	6	34	47	3	6	23	47
Longitudo Lunæ media	5	18	4	45	5	18	1	5
Aphelium Lunæ	3	13	42	46	3	13	43	11
Nodus Aſcendens Lunæ	1	4	27	54	1	4	25	40
Longitudo ♄ *media*	3	10	10	16	3	10	9	4
Aphelium Saturni	8	27	6	5	8	27	34	50
Nodus Aſcendens Saturni	2	21	2	38	3	20	52	26
Longitudo media ♃	7	28	54	50	7	28	55	1
Aphelium Jovis	6	8	44	25	6	9	15	39
Nodus Borealis Jovis	3	5	36	50	3	8	57	55
Longitudo ♂ *media*	5	7	50	48	5	7	50	39
Aphelium Martis	5	0	0	45	5	0	5	35
Nodus Borealis Martis	1	17	19	49	1	17	14	44
Motus medius Longitudinis ♀	3	1	21	6	3	1	21	2
Aphelion Veneris	10	5	8	10	10	6	5	22
Nodus Borealis Veneris	2	13	29	24	2	14	32	47
Motus medius Longitudinis ☿	9	12	5	35	9	12	5	19
Aphelion Mercurii	8	14	15	16	8	13	4	41
Nodus Borealis Mercurii	1	13	45	0	1	13	50	21

Last quarter 4. day, 8 min. past 8 a clock at night.
New moon the 11 day, 57 min. after noon.
First quarter 18. day, 13 minutes past 11 before noon.
Full moon 26 day, 50 minutes past 3 in the after noon

M.D.	W.D.	Holy and festival dayes with Sun set.	Sunnes place	Moons place	The planets mutual Aspects, & inclination of the ayr, &c.
1	a	New years day	11 ♑ 22	12 ♏ 27	Some turbulent
2	b	Sun set 3. 55.	12 23	24 48	spirits are still busie
3	c	Enoch	13 24	7 ♎ 23	☌☉☿ 5. p. & ble-
4	d	Mathus	24 25	20 15	mish their own hon
5	e	Simeon	15 26	3 ♏ 27	The Scot not quiet
6	f	Twelf day	26 28	17 3	Most part of this
7	g	Sun set 4. 1.	17 29	1 ♐ 6	moneth exspect
8	a	Lucian	28 30	15 36	high winds, especi-
9	b	Marcel.	29 31	0 ♑ 26	ally 3, 4, 10, 15, 24 d
10	c	Gordian.	♒ 32	15 37	✶ ♃ ♀. variable.
11	d	Atlas	1 33	0 ♒ 54	Snow-like.
12	e	Sun set 4.9.	2 34	16 6	Indifferent.
13	f	Hillarie	3 35	1 ♓ 1	Temperate.
14	g	Felix	4 36	15 33	Cold and cloudy.
15	a	Maure	5 37	29 37	✶ ☉ ♅. Clear
16	b	Marcel.	6 38	13 ♈ 12	and frostie.
17	c	Sun set. 4. 17.	7 39	26 19	✶ ☌ ♀. Cold, in-
18	d	Prisca	8 40	9 ♉ 3	clining to snow.
19	e	Pontian;	9 41	21 23	Very temperate.
20	f	Fabian	10 42	3 ♊ 13	Also mild.
21	g	Agnes	11 43	15 27	A little alteration.
22	a	Vincent	12 44	27 21	Overcast.
23	b	Terme begins	13 45	9 ♋ 10	Snow-like.
24	c	Sun set 4:30.	14 66	21 3	☌ ♀ ☿ 10. p.
25	d	Conver: Paul	15 47	3 ♌ 0	Winds and snow.
26	e	Septuagesima	16 48	15 2	Very cold, windy,
27	f	Julian	17 48	27 13	& unquiet weather
28	g	Agnes 2.	18 49	9 ♍ 30	Clear. now & then.
29	a	Sun set 4.39.	19 50	21 56	△ ☉ ♂. Frostie.
30	b	Basil.	20 51	4 ♎ 30	▨ ♅ ♀. 2. 2. High
31	c	Victor.	21 51	17 15	winds.

The 4 day Mars 1. morning
The 7 day Jupiter 4 afternoon
The 11 day Mercury at 10 night
The 13 day Venus at 8 night
The 23 day Saturn at 10 morn.
The 4 day, Spica ♍ 10 morn.
The 7 day, cor ♏ at 8 night
The 19 day the 7. ✱ 7. night

} is with the moon.

D.	ho.	min.	*Full sea at London-Bridge.*
1	6 M.	5	
2	6	48	
3	7	2	
4	8	16	
5	9	3	
6	9	54	Day 8. hours.
7	10	49	
8	11	49	
9	12	52	
10	1 A.	52	
11	2	55	
12	3	57	
13	4	52	
14	5	44	
15	6	33	
16	7	21	
17	8	7	
18	8	52	
19	9	39	
20	10	26	
21	11	16	
22	12	4	
23	mor.	4	
24	0	54	Day 9. hours
25	1	43	
26	2	30	
27	3	17	
28	3	59	
29	4	42	
30	5	25	
31	6	10	

February hath xxviij. dayes.

Last quarter the third day, 3 min. past 8 in the morning.
New moon the ninth day, 21 min. past 11 at night.
First quarter the 17 day, 32 min. past 5 in the morning.
Full moon the 25 day, 53 min. past 8 in the morning.

M.D.	W.D.	Holy and festival days with Sun sett.	Sunnes place		Moons place			The planets mutual aspects, & inclination of the ayr, &c.
1	♄	Sun set 4.44.	22 ♒	51	0	♏	15	Some dishonest
2	☾	Purif. Mary.	23	52	13		24	practises cõmitted.
3	♂	Blase	24	53	26		54	Very moist, yet
4	♃	Gilbert.	25	53	10	♐	45	☌ ☉ ♀ 10 p. not
5	♀	Sun set 4.53.	26	54	24		57	very cold.
6	♄	Dorothy.	27	55	9	♑	30	not much unlike
7	☾	Augustine	28	55	24		20	☾ Perig.
8	♄	Paul Bish.	29	55	9	♒	19	Indifferent.
9	☾	Shrove-sunday	♓	56	14		17	Rain-like.
10	♂	Sun set 5.3.	1	56	9	♓	7	Frost-like.
11	♃	Eustace v.	2	56	23		40	△ ♂ ♀. Some rain
12	♀	Term ends.	3	56	7	♈	45	or snow.
13	♄	Wolfran	4	57	21		24	More warm.
14	☾	Valentine	5	57	4	♉	37	Temperate.
15	♄	Sun set 5.13.	6	57	17		24	Some clouds.
16	☾	1 Sun. in Lent.	7	58	29		50	△ ☉ ♄. very cold.
17	♂	Constantia	8	58	11	♊	59	□ ☉ ♃. 10 p. winds
18	♃	Concord.	9	58	23		56	clearing the air.
19	♀	Sab: and Ju:	10	58	5	♋	47	Sharp words, but I
20	♄	Sun set 5.21.	11	58	17		36	hope no blows.
21	☾	69 Martyrs	12	58	29		30	☾ Apog.
22	♄	Peters Chair.	13	58	11	♌	27	Indifferent.
23	☾	2 Sun, in Lent.	14	58	23		37	blustering & storm.
24	♂	Matthias Ap.	15	58	5	♍	57	☌ ☉ ♀ 1 P winter
25	♃	Sun set 5.33.	16	58	18		28	weather.
26	♀	Nestor	17	58	1	♎	11	More remisse.
27	♄	Aug. Bish.	18	58	14		5	Overcast and snow
28	☾	Roman.	9	59	27		10	like.

The 4 day Jupiter at 7 morn.
The 9 day Venus at 4 afternoon
The 11 day Mercury at 7 morn.
The 19 day Saturn at 3 afternoon } is with she moon.
The 28 day Mars at 3 morning.
The 4 day at 3 morn. *Cor Scorp.*
The 16 day the 7 ſtars at 4 morn.

D.	ho	min.	*Full ſea at London-Bridge.*
1	6	56	
2	7	45	
3	8	38	
4	9	34	
5	10	33	
6	11	34	
7	12	36	
8	1	36	Day 10. hour.
9	2	33	
10	3	28	
11	4	19	
12	5	8	
13	5	58	
14	6	45	
15	7	34	
16	8	21	
17	9	12	
18	10	1	
19	10	50	
20	11	39	
21	12	28	
22	m.	28	
23	1	15	Day 11. hour.
24	1	59	
25	2	45	
26	3	30	
27	4	11	
28	4	58	

March hath xxxi dayes.

Last quarter the 4 day, 41 min. past 4 in the afternoon.
New moon the 11 day, 9. min. past 10 in the morning.
First quarter the 18 day, 51 min. after 12 at night.
Full moon the 26 day, 10 min. past 11 at night.

Mar.	D.W.	Holy and festival days with Sun set.	Sunnes place		Moons place		& inclination of the ayr, &c.	The Planets mutual aspects,
1	D	David	10	♓ 57	10	♍ 2		The winds are high
2	☾	4 Sun. in Lent	11	57	23	52	□ ♃ ♀ 7	and the
3	F	Sun set 5.46	12	57	7	♐ 29		Enemie loseth.
4	G	Adrian	13	56	21	19		Clouds, wind and
5	A	Eusebius	14	56	5	♑ 21	△ ♄ ☿.	storms.
6	B	Sun set 5.53.	15	56	19	36		More mild.
7	C	Perpetua	16	55	4	♒ 1		Many hypocrites
8	D	Felix	17	55	18	33		now appear in
9	☾	4 Sun. in Lent.	18	54	3	♓ 6		sheeps clothing.
10	F	Micheas	19	5	17	35		The 8 day rain-like
11	G	Sun set 6.2.	♈	53	1	♈ 49		The 9. windy:
12	A	Gregory	1	53	15	4		More warm.
13	B	Theodore	2	51	29	20		Indifferent.
14	C	Candidus	3	51	12	♉ 32		Fair.
15	D	Sun set 6.10.	4	50	25	21		About the 18, 19,
16	☾	5 Sun. in Lent	5	49	7	♊ 50		& 20 d. cold rain,
17	F	Gertrude	6	48	10	2		hail, stormy weath.
18	G	Edward	7	48	2	♋ 1		England & Scotl.
19	A	Joseph	8	47	13	53	□ ☉ ♄	1.2. are
20	B	Sun set 6. 21.	9	46	25	41	□ ♃ ♀	1.2. busy.
21	C	Benedict	10	4	7	♌ 35	△ ☉ ♃	
22	D	Paulinus	11	44	19	35		Warlike prepara-
23	☾	Palm sunday	12	43	1	♍ 46	☌ ☉ ♂	11.2. tions
24	F	Botolph	13	42	14	12		in sundry parts of
25	G	Annun. Mary	14	41	26	54		Europe.
26	A	Sun set 6. 34.	15	40	9	♎ 53		The 23,24,& 25.d
27	B	Martian	16	39	23	8		dry windy weather.
28	C	Dorothy	17	37	6	♏ 38		The weather in-
29	D	Quintine	18	36	20	20		different good.
30	☾	Easter day	19	35	4	♐ 12	✶ ♃ ♂.	Turbu-
31	F	Sun set 6. 44.	20	33	18	10		lent air.

The 2 day, Jupiter at 6 night
The 8 day, Venus at 6 night
The 9 day, Mercury at 5 afternoon
The 18 day, Saturn at midnight
The 26 day, Mars at 7. night
The 30 day Jupiter at midnight
The 15 day at noon the 7. ✶
The 22 day at noon cor ☊

} is with the Moon.

D.	ho.	min	*Full Sea at London-Bridge.*
1	5	47	
2	6	38	
3	7	34	
4	8	31	
5	9	31	
6	10	30	
7	11	28	
8	12	25	
9	1	21	
10	2	13	Day 8. hours.
11	3	3	
12	3	54	
13	4	42	
14	5	31	
15	6	20	
16	7	11	
17	8	0	
18	8	50	
19	9	41	
20	10	29	
21	11	17	
22	12	2	
23	m.	2	
24	0	47	Day 13 houre.
25	1	31	
26	2	15	
27	3	3	
28	3	50	
29	4	42	
30	5	39	
31	6	27	

Aprill hath xxx dayes.

Last quarter the 2 day, 7 min. past 11. at night.
New moon the 9 day, 56 min. past 9. at night.
First quarter the 17 day, 33 min. past 7. at night.
Full moon the 25 day, 47 min. past 10 before noon.

M.D.	W.D.	Holy and festival daies with Sun set.	Sunnes place		Moons place			The planets mutual aspects, & inclination of the aye, &c.
1	g	Sun set 6. 46	21 ♈	2	2	♍	14	Wind and clouds.
2	a	Mary Egypt.	22	31	16		20	☐ ♄ ♂. Rain thun.
3	b	Richard	23	29	0	♒	28	cold-rain the 3. or
4	c	Ambrose	24	28	14		34	△ ♄ ♀ 4 dayes.
5	d	Vincent	25	26	28		42	▨ ♃ ☿ 9 a. temper.
6	e	Low-sunday.	26	25	12	♓	46	Some hopes of cu-
7	f	Sun set 6.55.	27	23	26		44	ring (or at leastwise
8	g	Perpetuus	28	22	10	♈	32	△ ♃ ☿ mitigating)
9	a	7 Virgins	29	20	24		8	our distemp Wind
10	b	Leo	♉	18	7	♉	29	& clouds, bringing
11	c	Julius	1	17	20		30	storms the 7,8, days
12	d	Sun set 7.7.	2	15	3	♊	15	Oh covetous man!
13	e	2 Sun. aft. East.	3	12	15		43	thou that grindest
14	f	Tiburtius	4	11	27		56	the poor and needy,
15	g	Olympa	5	10	9	♋	57	yet pretendest Rel.
16	a	Term begins	6	8	21		50	Religion, thee I say
17	b	Sun set 7.16.	7	6	3	♌	40	☽ Apog. will God
18	c	Quintine.	8	4	15		31	judg for thy hypoc.
19	d	Alphege	9	2	27		30	his punishments are
20	e	3 sun. af: East.	10	0	9	♍	40	✱ ☉ ♄. preparing
21	f	Simeon	10	58	22		6	for thee. Hail.
22	g	Sun set 7. 25.	11	56	4	♎	54	A mixt weather.
23	a	S. George.	12	54	18		2	More serene.
24	b	Wilfride.	13	52	1	♏	32	variable.
25	c	S. Mark.	14	50	15		23	✱ ♄ ☿. Windy
26	d	Clete	15	48	29		31	*Da pacem Dom. in*
27	e	4 Sun. aft. East	16	45	13	♐	52	*diebus nostris his sce-*
28	f	Sun set .36.	17	43	28		20	*leratis.* Winds, rain,
29	g	Peter Mar.	18	41	12	♑	48	☍ ♂ ☿. 9. p. and hail
30	a	Erken.	19	39	27		11	☌ ☉ ☿. 11. a. these d.

The 6 day Venus at 7. morn.
The 15 day Saturn at noon.
The 22 day Mars at 11 morn.
The 27 day Jupiter at 3. morn.
The 8 day Mercury at 9. morn.
The 10 day Oc. *Taur.* at 8. morn.
The 18 day cor ☊ at 5. afternoon.
} is with the moon.

D.	ho.	min.	
1	7	M. 37	*Full sea at London Bridge.*
2	8	36	
3	9	34	
4	10	29	
5	11	22	
6	12	13	
7	1	A. 2	
8	1	51	Day 14 hour.
9	2	40	
10	3	28	
11	4	18	
12	5	8	
13	5	0	
14	6	51	
15	7	41	
16	8	29	
17	9	17	
18	10	3	
19	10	48	
20	11	31	
21	12	15	
22	m.	15	
23	1	45	
24	2	34	
25	3	29	Day 15 hour.
26	3	50	
27	4	30	
28	5	43	
29	6	53	
30	7	34	

Last quarter the 2 day, 36 min. past 4. in the morning.
New moon the 9 day, 41 min. past 10. in the morning.
First quarter the 17 day, 48 minutes after noon.
Full moon the 24 day, 45 min. past 7. at night.
Last quarter the last day, 33 min. past 10. before noon.

D.	W.	Holy and festival days, with Sun sett.	Sunnes place	Moon place	The Planets mutual Aspects & inclination of the aire, &c.
1	b	Phil. & Jacob.	10♉ 36	11 ♒ 25	The 1 & 2. fair and
2	c	Sun set 7. 43.	11 34	25 30	△ ♃ ☿. temperate
3	d	Invent. Cr.	12 32	9 ♓ 24	The 7. cold rain,
4	e	5. Sun. af. East.	13 29	23 6	the 9. high winds.
5	f	Iohn Port. Lat.	14 27	6 ♈ 37	Rich men, dote not
6	g	the 6. day.	15 25	19 58	too much on your
7	a	Sun set 7. 50.	16 22	3 ♉ 9	□ ♄☿. ☽☍. Mam-
8	b	Ascension day	17 20	16 7	mon riches. but re-
9	c	Hermes	18 17	28 53	☌♃☿ 2.a. lieve the
10	d	Gordian	19 15	11 ♊ 29	poor & needy, that
11	e	6 Sun. aft. East	11 12	23 49	God may avert the
12	f	Term ends	1 10	6 ♋ 0	judgments, &c.
13	g	Sun set 7. 58.	2 7	18 0	☾ Apog.
14	a	Isidor Mar.	3 5	29 54	Indifferent.
15	b	Isidore.	4 2	11 ♌ 45	Action near hand.
16	c	Peregrine	4 59	23 36	Fine, clear, windy
17	d	Sun set 8. 3.	5 57	5 ♍ 33	☌☉♃ 3.a. wea-
18	e	Whitsunday	6 54	17 40	✶☽☿ ther for the
19	f	Dunston	7 51	0 ♎ 5	most part of these
20	g	Bernard	8 49	12 50	dayes.
21	a	Julian vir.	9 46	25 59	△♃♂. Rough air.
22	b	Helena	10 43	9 ♍ 35	Temperate.
23	c	Sun set. 8.9.	11 40	23 30	The 25, 26, & 27
24	d	Adelm	12 38	8 ♐ 2	winds & turbulent
25	e	Trinity Sund.	13 35	22 45	□☽☿ ☽☍. air.
26	f	Augustine	14 32	7 ♑ 39	Beware left a spirit
27	g	♄ 14, 15. ☊.	15 29	22 34	☾ perig. of errour
28	a	Coronis M.	16 27	7 ♒ 22	seduce you, under
29	b	Sun set 8. 15.	17 24	21 56	pretence of revelat.
30	c	Term begins	18 21	6 ♓ 7	*Nam multi venient*
31	d	Petronel	19 18	20 0	*in nomine Christi &c*

The 5 day Venus at 3 afternoon.
The 10 day Mercury at 5 morn.
The 13 day Saturn at 2 morn.
The 19 day Mars 9. p.
The 22 day Jupiter 18 p. m.
The 16 day Cor ♌.
The 20 day Spica ♍ 10 p.

} is with the moon.

D.	ho.	min.	
1	8 M	32	*Full sea at London-bridge.*
2	9	24	
3	10	15	
4	11	2	
5	11	50	
6	12	38	
7	9 A	25	
8	1	12	
9	3	2	
10	3	54	
11	4	44	
12	5	35	
13	6	24	
14	7	13	
15	7	58	Day 16 hours
16	8	42	
17	9	25	
18	10	9	
19	10	51	
20	11	35	
21	12	23	
22	mor.	23	
23	1	13	
24	2	7	
25	3	9	
26	4	15	
27	5	19	
28	6	20	
29	7	16	
30	8	9	
31	8	57	

New moon the 8 day, 33 min. before 1. in the morning.
First quarter the 16 day, 49 min. past 3. in the morning.
Full moon the 23 day, 12 min. past 3. in the morning.
Last quarter the 29 day, 18 min. past 6. afternoon.

M.D.	W.D.	Holy and festival days, with Sun set	Sunnes place	Moons place	The Planets mutual Aspects & inclination of the eye, &c.
1	☉	1 Sun. aft. Tri.	20 ♊ 15	3 ♈ 36	☌ ♄ ☿. ☍ ♀. P. wind
2	☾	Sun set 8.17.	21	12 16	50 and clouds.
3	♂	Erasmus	22	10 29	50 *Motus bellici arre-*
4	☿	Petrocie	23	7 12	♉ 40 *ces erunt in*
5	♃	Boniface	24	4 25	17 *provinciis septentri-*
6	♀	Sun set 8. 19.	25	1 7	♊ 47 ✶ ♄ ☿. *onalibus.*
7	♄	Wolstane	25	58 20	6 Rain-like.
8	☉	2 Sun. aft. Tri.	26	55 2	♋ 18 Cool.
9	☾	Edmond.	27	52 14	34 Indifferent.
10	♂	Onophru.	28	49 26	23 ☾ Apog.
11	☿	Sun set 8. 20.	29	46 8	♌ 17 Gentle winds cool-
12	♃	Basil.	♋	43 20	8 ✶ ☿ ☿. ing the air
13	♀	Cyril.	1	40 2	♍ 0 Hot.
14	♄	Valerius	2	38 13	57 Many are the
15	☉	3 Sun. aft. Tri.	3	35 26	3 threats of our ene-
16	☾	Sun set 8. 19.	4	32 8	♎ 57 mies, but we need
17	♂	Gundulph	5	29 21	5 not care. *Deus de-*
18	☿	Term ends	6	26 4	♏ 9 *dit nobis bona.*
19	♃	Gervase	7	23 17	41 Good weather.
20	♀	Silverius	8	20 1	♐ 44 ☌ ♃ ☿ ☽. P. warm
21	♄	Sun set 8. 18	9	17 16	13 and temperate.
22	☉	4 Sun. aft. Tri	10	14 1	♑ 7 Flying clouds.
23	☾	Etheldred	11	11 16	16 ☌ ♄ ☿ *fere.* winds
24	♂	John Baptist	12	8 1	♒ 30 and turbulent air
25	☿	Transf of C.	13	5 16	37 with thunder &c.
26	♃	Sun set 8. 14.	14	2 1	♓ 28 ☌ ☉ ☿ ☽. p. 26, 28 d
27	♀	7. Sleepers	14	59 15	57 Much stir & differ-
28	♄	Leo	15	56 0	♈ 0 □ ♄ ♂ ☽ P. tion,
29	☉	Peter & Paul	16	54 13	38 yea & bloud-shed
30	☾	Com. S. P.	17	51 26	50 too, in some places

The 4 day Venus at 5 morn.
The 9 day Saturn at 3 afternoon
The 10 day Mercury at 3 morn.
The 16 day Mars at 10 night
The 20 day Jupiter at 11 before noon
The 12 day Cor ♌ at 8 night
The 20 day at 7 afternoon
} is with the moon.

D.	hou.	min.	
			Full sea at London bridge.
1	9	mo. 45	
2	10	32	
3	11	19	
4	12	6	
5	12	54	
6	1	A 44	
7	2	33	
8	3	25	
9	4	15	
10	5	2	
11	5	50	Longest day 16 hou. 40 min.
12	6	35	
13	7	17	
14	8	0	
15	8	40	
16	9	21	
17	10	8	
18	10	54	
19	11	48	
20	12	42	
21	mor.	42	
22	1	43	
23	2	46	
24	3	51	
25	4	55	
26	5	52	
27	6	45	
28	7	35	
29	8	23	
30	9	10	

New moon the 7 day, just at 3 in the afternoon.
First quarter the 15 day, 17 min. past 4 in the afternoon.
Full moon the 22 day, 2 min. before 10 in the morning.
Last quarter the 29 day, 43 min past 4 in the morning.

D.	L.	Holy and Festival days with Sun set.	Sunnes place	Moons place	The Planets mutual & inclination of the air, &c	Aspects,
1	g	Sun set. 8. 9.	18 ♋ 48	9 ♉ 43		☌☉♄. Hail, thun-
2	a	Visit. Mar.	19 45	22 19		der and lightning
3	b	Transl. Tho.	20 42	4 ♊ 45		□☉♂ 5. a these d.
4	c	Ulrick	21 39	17 0		Scotland not free
5	d	Zoe virg.	22 36	29 7		from civil broyls,
6	e	6 Sun. aft. Tri.	23 33	11 ♋ 10		neither can we be
7	f	Sun set 8,2.	24 31	23 9		☾ Apog. at quiet.
8	g	Dep. of Erk.	25 28	5 ♌ 4		△♂☿. Showers.
9	a	Cyril	26 25	16 58		*Egrotationes pestife-*
10	b	7. Brethren	27 22	28 52		*ra & pernitiosa, au-*
11	c	Pius	28 19	10 ♍ 48		*gustiaq; in hisce*
12	d	Sun set 7.55.	29 15	22 48		*partibus insurgent*
13	e	7 Sun. aft. Tri.	♌ 12	4 ♎ 56		△☉☿. *quamplurimæ.*
14	f	Bonavent.	1 10	17 20		Fair and clear.
15	g	Swithin.	2 8	29 59		Warm.
16	a	Sun set 7.50.	3 5	12 ♏ 55		The 17 clear.
17	b	Alexius	4 3	26 19		Some eminent de-
18	c	Rosina.	5 0	10 ♐ 14		signs in S. *Evis tis*
19	d	Dog da. beg.	5 57	24 38		*dolores.* Temperate
20	e	8 Sun. aft. Tri.	6 55	9 ♑ 29		Cool.
21	f	Praxad.	7 52	24 36		☾ Perig.
22	g	Sun set 7.40.	8 49	9 ♒ 51		☌♄☿ 2. p. Winds
23	a	Apollin.	9 47	25 10		and clouds.
24	b	Christian.	10 44	10 ♓ 13		*Prodigia appare-*
25	c	James Apo.	11 42	24 54		*bunt quamplurima.*
26	d	Sun set 7.32.	12 39	9 ♈ 9		Something cloudy
27	e	9 Sun. aft. Tri.	13 36	22 55		Cool winds.
28	f	Sampson	14 34	6 ♉ 13		Very warm.
29	g	Beatrice	15 31	19 8		Indifferent.
30	a	Abdon.	16 29	1 ♊ 42		Warm and clear.
31	b	Sun set 7.25.	17 27	14 0		

The 4 day Venus at 10 morn.
The 6 day Mercury at 5 morn.
The 7 day Saturn at 4 morn.
The 15 day Mars at 8 morn.
The 17 day Jupiter at 7 at night
The 18 day Cor m at 3 morn.
The 29 day, the Pleiades at midnight
} is with the moon.

D.	Ho.	m.	*Full sea at London-Bridge.*
1	0 m.	58	
2	10	46	
3	11	36	
4	12	26	
5	1 A	16	
6	2	6	
7	2	54	
8	3	41	Day 16 hours.
9	4	27	
10	5	10	
11	5	54	
12	6	34	
13	7	16	
14	8	0	
15	8	46	
16	9	35	
17	10	27	
18	11	23	
19	12	24	
20	mor.	24	
21	1	27	
22	2	31	
23	3	33	
24	4	30	
25	5	24	
26	6	15	
27	7	5	
28	7	54	Day 15. hours.
29	8	43	
30	9	32	
31	10	21	

August hath xxxi dayes.

New moon the 6 day, 20 min. past 6. in the morning.
First quarter the 14 day, 32 min. past 2. in the morning.
Full moon the 20 day, 23 min. past 5. afternoon.
Last quarter the 27 day, a quarter of an hour before sun-set

M.D.	W.D.	Holy and festival days, with Sun set.	Sunnes place		Moons place			The planets mutual Aspects & inclination of the ayr, &c
1	c	Lammas d.	1 ♌ 8	24	26	♊	8	[] ☌ ☿ 5.p. Wind &
2	d	Sun set 7. 21.	19	22	8	♋	8	☌ ♄ ☿ 7.p. clouds,
3	E	10 Sun.af. Tr.	20	19	20		4	if not rain in some
4	f	Aristarchus	21	17	1	♌	58	☾ Apog. places.
5	g	Sixtus	22	15	13		53	The Scot is fearful,
6	a	Christs trans.	23	12	25		49	yet subtile.
7	b	Sun set 7. 11	14	10	7	♍	47	The 6. day warm.
8	c	Roman.	25	8	19		50	Cooler.
9	d	♄ 23. 24 ♋	26	4	1	♎	59	△ ♃ ☿. Temperate
10	E	11 Sun.af. Tr.	27	1	14		19	Like to hail.
11	f	Tiburtius	28		26		44	SS ♄ ☿. variable.
12	g	Sun set 7.1.	28	59	9	♏	26	Warm.
13	a	Hippoli.	29	57	22		25	The 14.15,16, and
14	b	Eusebius	♍	55	5	♐	16	17, da. great winds.
15	c	Assump. Mary	1	53	19		31	■ ☉ ♂ 9. a. ■ ♃ ☿
16	d	Sun set 6. 53.	2	51	3	♑	41	☌ ☉ ☿ 1. p.
17	E	12 Sun.af. Tr.	3	49	18		16	Its time to repent
18	f	Helen	4	47	3	♒	11	O man, & to be-
19	g	Sebald	5	45	18		18	☾ perig. wail for
20	a	Lodowick	6	43	3	♓	27	thy transgressions.
21	b	Sun set 6. 44	7	41	18		28	Wavering.
22	c	Private	8	40	3	♈	11	Indifferent.
23	d	Zacheus	9	38	17		33	The 24 overcast.
24	E	Barthol. Ap.	10	36	1	♉	27	Doth not Sects
25	f	Lewis	11	34	14		54	& Heresies disturb
26	g	Sun set. 6. 34	12	32	27		54	al Europ? we have
27	a	Dog.da.end	13	31	10	♊	32	✶ ♂ ☿. our share.
28	b	Augustine	14	29	22		51	■ ♂ ☿ 2.a. *Apertio*
29	c	Decol. Joh.	15	28	4	♋	56	✶ ♄ ☿. *portarum*,
30	d	Sun set 6. 26.	16	26	16		52	to rain, hail and
31	E	14 Sun.af. Tr.	17	24	28		45	△ ♄ ♂ thunder.

The 3 day Saturn & Venus at 4 aftern.
The 5 day Mercury at 7 morning
The 12 day Mars at 10 night
The 14 day Jupiter 5 morning } is with the moon
The 31 day Saturn at 3 morning
The 10 Spica ♍ at 8 night
The 26 day the 7 ✶ at 7 morn.

D	hou.	m.	*Full sea at London bridge.*
1	11 M	13	
2	12	3	
3	12	52	
4	1 A	41	
5	2	25	
6	3	10	
7	3	54	
8	4	35	
9	5	18	
10	6	2	
11	6	45	
12	7	32	
13	8	22	Day 14. hours.
14	9	15	
15	10	11	
16	11	14	
17	12	16	
18	mor.	16	
19	1	19	
20	2	18	
21	3	15	
22	4	7	
23	4	58	
24	5	49	
25	6	39	
26	7	31	
27	8	23	
28	9	14	
29	10	6	Day 13. hours.
30	10	55	
31	11	44	

September hath xxx dayes.

New moon the 4 day, 5 min. past 10 at night.
First quarter the 12 day, 52 min. past 10 in the morning.
Full moon the 19 day, 31 min. past 2 in the morning.
Last quarter the 26 day, 16 min. past 11 before noon.

M.D	W.D	Holy and festival days, with Sun set.	Sunnes place		Moons place			The Planets mutual Aspects, & inclination of the air, &c.
1	f	Sun set 6.23.	18	♍ 23	10	♌	36	Warm.
2	g	Anthony	19	21	22		31	✱♃☿. Some lent
3	a	Gregory	20	20	4	♍	30	winds are stirring.
4	b	Theodosius	21	19	16		36	Very temperate, &
5	c	Zacharie	22	17	28	♎	48	☐♃♀ 5. p. fine
6	d	Sun set 6.13.	23	16	11		12	harvest weather.
7	E	15 Sun.af.Tri.	24	15	23		45	Overcast.
8	f	Nat. Mary.	25	13	6	♏	29	Indifferent.
9	g	Gorgon	26	12	19		25	✱☉♄. cold mists
10	a	Sosthen.	27	11	2	♐	35	Cloudy, but fair.
11	b	Sun set 6.3.	28	10	15		57	Some drops.
12	c	Tobias	29	9	29		41	More fair.
13	d	Amatus	♎	8	13	♑	40	Storms of wind.
14	E	16 Sun.af.Tri.	1	7	27		57	☌♃♂ 10 a. warm
15	f	Nichomede	2	6	12	♒	30	☾ Perig. but high
16	g	Sun set 5.53.	3	5	27		16	& turbulent winds
17	a	Lambert	4	4	12	♓	2	☐♄☿ 4.a. follow.
18	b	Ferriolus	5	3	26		46	The Sectary I pitty
19	c	Ianuary.	6	2	11	♈	20	✱☉♃. in that a
20	d	Sun set 5.45.	7	1	25		36	lying spirit se-
21	E	St. Matthew	8	c	9	♉	30	duceth them.
22	f	Maurice	9	c	23		0	Cold misty morn.
23	g	Esdra	9	59	6	♊	5	The 24 day prone
24	a	Samuel	10	58	18		48	✱♄♀. to rain.
25	b	Sun set 5.35.	11	58	1	♋	11	A misty morning.
26	c	Cyprian	12	57	13		18	*Erit in hominibus*
27	d	Iudith	13	56	25		14	*damnum per infir-*
28	E	18 Sun.af.Tri.	14	56	7	♌	5	*mitates & dolores.*
29	f	S. Michael	15	55	18		14	✱☉♂. Fair and
30	g	Sun set 5.23.	16	55	0	♍	44	dry 2 or 3 daies.

The 3 day Venus at 2 morn.
The 6 day Mercury at 10 morn.
The 10 day Jupiter at 6 night
The same day ☽ at 2 afternoon
The 27 day Saturn at 6 night
The 10 day Cor ♏ at 6 night
} is with the moon.

D.	Ho.	mi.	*Full Sea at London bridge.*
1	12	30	
2	1	15	
3	1	58	
4	2	41	
5	3	24	
6	4	7	
7	4	52	
8	5	39	
9	6	28	
10	7	20	
11	8	15	
12	9	14	
13	10	14	Day 12 hours.
14	11	14	
15	12	13	
16	mor.	13	
17		10	
18	2	4	
19	2	55	
20	3	46	
21	4	39	
22	5	31	
23	6	24	
24	7	16	
25	8	8	
26	8	58	
27	9	47	Day 12 hours.
28	10	35	
29	11	19	
30	12	2	

October hath xxxi dayes.

New moon the 4 day, 37 min. past 1 in the afternoon.
First quarter the 11 day, 6 min. past 6 at night.
Full moon the 18 day, 53 min. past 1 in the afternoon.
Last quarter the 26 day, 14 min. past 7 in the morn.

☽	☽	Holy and festival days, with Sun set.	Sunnes place		Moons place		The planets mutual aspects & inclination of the eye, &c.
1	a	Sun set 5. 21.	17	♎ 54	12	♍ 50	General calamities
2	b	Leodeger	8	54	25	0	are impending.
3	c	Candid mar.	19	54	7	♎ 25	☌ ♃ ☿. The 1, 2,
4	d	Francis	20	53	20	3	and 3. daies warm.
5	e	19 Sun. af. Tr.	21	53	2	♏ 56	Cloudy.
6	f	Sun set 5. 12.	22	53	16	4	Windy.
7	g	Pelagius	23	53	29	24	Hail the 8 & 12 d.
8	a	Dionysius	24	52	12	♐ 56	☐ ♄ ♂. Fair.
9	b	Gideon	25	52	26	38	Warm.
10	c	Paul B.	26	52	10	♑ 29	Cloudy afternoon.
11	d	Sun set 5. 0.	27	52	24	27	The air cool.
12	e	20 Sun. af. Tr.	28	52	8	♒ 33	☐ ☉ ♄ 9. a. Cold
13	f	Tilema	29	52	22	46	☽ Peric. rain.
14	g	Calixtus	♏	52	7	♓ 3	☍ ♃ ☿. Variable.
15	a	Hedwig	1	52	21	23	*Multa scelera sub*
16	b	Sun set 4. 52.	2	52	5	♈ 40	*prætexta boni patis.*
17	c	Florence	3	52	19	49	Vc. ♄ ☿. *burnur.*
18	d	Luke Evang.	4	52	3	♉ 48	Various weather.
19	e	21 Sun. af. Tr.	5	53	17	33	☌ ☉ ☿ 8. p. Great
20	f	Sindulphus	6	53	0	♊ 55	winds, and storms
21	g	Sun set 4. 42.	7	53	14	0	of rain.
22	a	Severus	8	53	26	45	☍ ♂ ☿.
23	b	Term begins	9	54	9	♋ 9	☌ ♀ ☿ r. p. more
24	c	Salome	10	54	21	18	storms anoy us.
25	d	Sun set 4. 34.	11	54	3	♌ 15	Crispine.
26	e	17 Sun. af. Tr.	12	55	15	5	☽ Apog. SS ☉ ♃
27	f	Florence	13	55	26	♌ 53	The 26, 27. & 28
28	g	Simon & Jud	14	56	8	♍ 45	dayes fair and
29	a	Narcis.	15	56	20	46	temperate.
30	b	Sun set 4. 25.	16	57	3	♎ 0	Indifferent
31	c	Quintin.	17	57	15	31	Warm for the time.

The 3 day Venus at noon
The 6 day Mercury at 8 morn.
The 8 day Jupiter at 8 morn.
The 9 day Mars at 8 morning } is with the moon.
The 25 day Saturn at 5 morn.
The 19 day the 7 Stars at midn.
The 26 day Cor ♌ at 7 night

D.	hou.	m.	*Full sea at London-bridge.*
1	0 A	46	
2	1	29	
3	2	12	
4	2	57	
5	3	43	
6	4	32	
7	5	25	
8	6	19	
9	7	17	
10	8	16	
11	9	15	Day 10. hours.
12	10	11	
13	11	5	
14	11	59	
15	12	51	
16	mor.	51	
17	1	42	
18	2	31	
19	3	21	
20	4	13	
21	5	6	
22	6	0	
23	6	54	
24	7	45	
25	8	32	
26	9	17	
27	10	1	Day 9. hours.
28	10	43	
29	11	25	
30	12	0	
31	0 A	51	

New moon the 3 day, 8 min. past 4 in the morning.
First quarter the 10 day, 29 min. past 1 in the morning.
Full moon the 17 day, 4 min. past 4 in the morn.
Last quarter the 25 day, 41 min. past 4 in the morning.

D	N	Holy and festival days with Sun set.	Sunes place		Moons place		The planets mutual Aspects & inclination of the air, &c
1	D	All Saints	18 ♏	58	28 ♎	21	Ireland is quiet; she
2	E	23 Sun. af. Tr.	19	58	11 ♏	31	will not harbour
3	F	Sun set 4. 17.	20	59	25	1	venome creatures.
4	G	Modest.	22	0	8 ♐	49	A fair night.
5	A	Powder treas.	23	1	22	51	No great change
6	B	Leonard	24	2	7 ♑	1	of the air as yet.
7	C	Sun set 4. 11.	25	2	21	14	The 7. and 8 daies
8	D	Claudius	26	3	5 ♒	28	D Perig. cloudy.
9	E	24 Sun. af. Tr.	27	4	19	38	Not much unlike.
10	F	Tryphon	28	4	3 ♓	41	△ ☉ ♄. cold rain
11	G	Martin	29	5	17	42	or snow is por-
12	A	Sun set 4. 4.	♐	6	1 ♈	37	△ ♄ ♀. tended.
13	B	Brice	1	7	15	25	Frosty.
14	C	Frederick	2	8	29	6	Cold and cloudy.
15	D	Leopold	3	9	12 ♉	38	Variable.
16	E	25 Sun. af. Tr.	4	10	26	0	Indifferent fair.
17	F	Hugh	5	11	9 ♊	9	The 17,18,19. rain
18	G	Sun set 3. 57.	6	12	21	53	☌ ☉ ☿. 4. 2. or snow
19	A	Elizabeth	7	13	4 ♋	42	Great mutations,
20	B	Amos	8	14	17	5	aswell in the air,
21	C	Obl. M.	9	15	29	16	as in the land.
22	D	Sun set 3. 51.	10	16	11 ♌	11	Temperate.
23	E	26 Sun. af. Tr.	11	17	23	3	Remission of cold
24	F	Chrysog.	12	18	4 ♍	50	☍ ♄ ☌. 9. p. snow.
25	G	Katherine	13	19	16	39	△ ♄ ♀. ✶ ☌ ♀.
26	A	Conrad.	14	21	28	37	Dar'st thou adven-
27	B	Sun set 3. 46.	15	22	10 ♎	50	ture O Scot.
28	C	Term ends	16	23	23	21	Very temperate &
29	D	Saturn	17	24	6 ♏	14	☍ ✶ ☿ 11. p. fair.
30	E	Andrew Ap.	18	25	19	33	Advent sunday.

The 1 day Mercury at 12 night
The 2 day Venus at 7. night
The 4 day Jupiter at midnight
The 7 day Mars at 2 morning
The 8 day Saturn at 2 morning
The 16 day, at 11 morn. the 7. ✱
The 23 day Cor ♌ at 3 afternoon

} is with the moon.

D.	ho.	mi.	*Full sea at London bridge.*
1	1 A	36	
2	2	25	
3	3	16	
4	4	12	
5	5	11	
6	6	10	
7	7	10	
8	8	7	
9	9	2	
10	9	53	
11	10	43	
12	11	32	
13	12	21	
14	mor.	21	Day 8 hours.
15	1	11	
16	1	58	
17	2	49	
18	3	42	
19	4	39	
20	5	31	
21	6	20	
22	7	6	
23	7	49	
24	8	32	
25	9	13	
26	9	54	
27	10	37	
28	11	19	
29	12	6	
30	0 A	54	

December hath xxxi dayes.

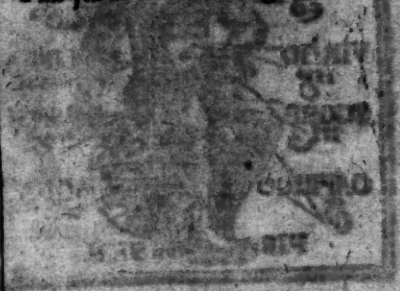
New moon the 2 day, past 5 in the afternoon.
First quarter the 9 day, 5 min. past 10 in the morn.
Full moon the 16 day, 41 min. past 8 at night.
Last quarter the 25 day, 24 min. past 1 in the morn.

☉	☽	Holy and festival days, with Sun set.	Sunnes place	Moons place	The Planets mutual Aspects, & inclination of the ayr, &c
1	f	Sun set 3.42.	19 ♐	26 3 ♐	17 Justice is preparing
2	g	Candid	20	28 17	27 Temperate weath.
3	a	Cassian	21	29 1 ♍	54 ☌☉☿ 2. p. Lofty
4	b	Barbarie	22	30 16	33 winds.
5	c	Sabina	23	31 1 ♒	16 ☽ Perig. snow-like
6	d	Sun set 3. 41.	24	33 15	55 Nicholas
7	e	2 Sun. in Adv	25	34 0 ♓	23 The 7 & 8 daies
8	f	Concep. Mary	26	35 14	37 indifferent.
9	g	Ioachim	27	36 28	35 ☌☿☿ 4. p. Blu-
10	a	Eulalia vir.	28	38 12 ♈	18 string winds.
11	b	Sun set 3.40.	29	39 25	47 *Vigebit ingratitudo.*
12	c	Paul	♍	40 9 ♉	6 Frost.
13	d	Lucie	1	41 22	14 Cool winds.
14	e	3 Sun. in Adv.	2	43 5 ♊	11 The 15 & 16 daies
15	f	Valerian	3	44 17	59 ☌☉☿ 9. p. windy.
16	g	Sun set 3. 41.	4	45 0 ♋	37 Great difference in
17	a	Lazarus	5	47 13	4 opinion will be
18	b	Christopher	6	48 25	20 amongst the schis-
19	c	Loth	7	49 7 ♌	25 maticks. *Nam alter*
20	d	Amon	8	51 19	21 ☽ Apog. *alteri ni-*
21	e	Thomas Apo.	9	52 1 ♍	11 *hil fidet.*
22	f	Sun set 3.44.	10	53 12	59 Wind & clouds.
23	g	Victoria	11	54 24	48 Frost-like.
24	a	Adam & Eve	12	56 6 ♎	44 ♋☌♀. Sleet.
25	b	Christs Nat.	13	57 18	54 High winds, and
26	c	Stephen Prot.	14	58 1 ♏	21 storms of rain, sno.
27	d	John Evang.	15	59 14	12 ♋☌☽ or sleet fol.
28	e	Innocents.	16	0 27	30 ☌♄☽ 2. a. ☌♄♀ a.
29	f	Sun set 3.50.	18	2 11 ♐	17 ☌♀☽ 11. a. the Scot
30	g	David	19	3 25	33 encroacheth but
31	a	Silvester.	20	5 10 ♍	13 hurts not, &c.

The 1 day Mercury at 9 at night
The 2 day Jupiter at 7 night
The same day Venus at 11 night
The 18 day Saturn at 4 night. } is with the moon.
The 5 day Mars at 10 at night
The 30 day Jupiter at 2 afternoon.
The 13 day the 7 ✳ at 6 night.

D.	hou.	m.
1	1 A	49
2	2	47
3	3	47
4	4	48
5	5	47
6	6	45
7	7	39
8	8	31
9	9	19
10	10	5
11	10	52
12	11	40
13	12	30
14	mor.	30
15	1	21
16	2	13
17	3	4
18	3	58
19	4	48
20	5	30
21	6	13
22	6	54
23	7	35
24	8	15
25	8	57
26	9	41
27	10	29
28	11	10
29	12	16
30	1 A	15
31	2	17

Full sea at London bridge.



Shortest day being 7 ho. 20. mi.

The Dominion of the Moon in mans body passing under the 12 Zodiacall Constellations.

The Characters of the seven Planets with Drag. head and taile.

♄ *Saturn*, ♃ *Jupiter*, ♂ *Mars*, ☉ *Sol*, ♀ *Venus*, ☿ *Mercury*, ☾ *Luna*, ☊ *Dragons-head*, ☋ *Dragons-tail*.

The Aſpects both old and new.

		Sig.	Deg.
☌ *A Conjunction*	When Planets are diſtant	0.	0.
⚺ *A Semiſextile*		1.	0.
✶ *A Sextile*		2.	0.
⚹ *A Quintile*		2.	12.
□ *A Quartile*		3.	0.
Td *A Tredicile*		3.	18.
△ *A Trine*		4.	0.
Bq *A Biquintile*		4.	24.
Vc *Quincunx*		5.	0.
☍ *An Oppoſition*		6.	0.

In the laſt columne of the left-hand Page of this my Almanack is ſet down the mutuall Syzygies and Aſpects of the Planets according to the calculation of Argoll, as they will appear this preſent year 1671.

A PROGNOSTICATION for the year, 1651.

Being the third from Bissextile or Leap-year.

Wherein is contained sundry profitable and necessary rules and Tables, being requisite and usefull to be understood of all sorts of men.

Amongst the rest you may behold the generall state of the Year, with the Eclipses, and other celestiall appearances, together with the true Systeme of the visible world, agreeing to the most rationall grounds and Theories of Astronomy.

The Astronomicall Calculations being principally referred to the Meridian and Latitude of *Uppingham* in *Rutland*, where the Pole-Artick is elevated 52. d and 40. ′.

But may serve generally for all England.

By VINCENT WING, Mathemat.

Quum respicio cælos tuos, opus digitorum tuorum, Lunam & Stellas quas stabilisti: Quid est mortalis, quòd memor sis ejus? aut filius hominis, quòd visites eum? Psa. 8. 4. 5.

LONDON,

Printed by *A. Miller* for the Company of STATIONERS.

A Table shewing the true hour of the day, by help of a plain Walking-staff, divided into 12. equall parts or divisions.

Ho. before noon	12	11	10	9	8	7	6	5	4
Ho. after noon.	0	1	2	3	4	5	6	7	8
11 11 June	6	37	9	12	16	23	36	68	320
June 6 16	6	37	9	12	16	23	36	69	341
31 21	7	7	9	12	16	23	36	71	376
26 27	7	7	9	12	16	23	37	74	499
21 2 July	7	8	9	12	17	24	38	78	781
16 7	7	8	10	12	17	25	40	83	8150
10 12	7	8	10	13	18	26	42	94	
May 5 18	8	9	10	13	18	27	45	109	
30 23	8	9	11	14	19	28	48	129	
25 28	8	9	11	14	20	29	52	160	
20 2 Aug.	9	10	12	15	21	31	58	235	
14 7	10	10	12	16	22	33	65	430	
9 13	10	11	13	17	23	36	75	3438	
Apr. 4 18	11	12	14	18	25	40	89		
30 23	12	13	15	19	27	44	110		
25 28	13	13	16	20	29	49	146		
20 2 Sep.	14	14	17	21	31	55	218		
15 7	15	15	18	23	34	64	434		
10 12	16	16	19	25	37	75			
Mar. 5 17	17	18	21	27	42	92			
28 23	18	19	22	30	47	117			
23 28	19	20	24	33	53	160			
18 3 Oct.	21	22	26	36	61	251			
13 8	23	24	28	40	71	544			
8 13	25	26	31	44	84				
Feb. 2 18	27	28	34	49	103				
29 23	29	31	37	55	132				
24 28	31	33	41	62	175				
19 2 Nov.	33	36	44	71	255				
14 6	36	38	49	81	413				
9 11	39	41	53	92	1058				
Jan. 4 16	41	44	57	104					
31 21	43	47	62	118					
26 26	45	49	65	129					
21 1 Dece.	47	51	68	145					
16 6	48	52	70	150					
Dec. 11 11	49	52	71	154					

To finde the true hour of the day by help of the former Table with a Walking-Staff divided into 12. equall parts.

TAke a Staff or Rod, of what length you please, and divide the same into 12. equall parts, then set it upright in some plain levell place, and measure how many parts the shadow thereof contains, which being known, finde out the number of those parts in the Table, right against the day of the moneth, and in the same Column overhead, you have the true hour of the day. But if you cannot finde the just day of the moneth, neither the said parts exactly, then must you make proportion, or take the nearest thereunto. So shall you obtain the hour of the day with much facility, as by the example following doth appear.

Suppose that upon the 9. of April or 13. of August, I should erect my staff perpendicularly upon plain levell ground, and finde the shadow thereof to contain 17. parts (that is once the length of my staff, and 5. parts more) now seeking in the Table right against the said day for 17. parts: I finde over-head, that it is then either 9. a clock before-noon, or 3. afternoon: So that had the observation been in the fore-noon, it had been 9. a clock, if in the afternoon 3. of the clock, as the head of the Table demonstrates. Practice better then many words openeth this, therefore for brevity sake, let this one example suffice.

How to finde the height of a Tree, Tower, Steeple, Turret, or any such thing, standing upright, by the shadow thereof, speedily without Instrument.

TAke a straight Rod or Walking-staff, and divide the same into 6. or 8. or 10. feet, or more or lesse as you please, then erect the same perpendicularly upon some plain levell place, and note how many parts the shadow thereof contains, which done, measure also with your staff, how many parts thereof the shadow of the Turret extendeth from the Base, then multiply the length of the said shadow by the length of the staff, and divide the Product by the length of the shadow of the Staff, the Quotient will shew the height of the said Turret, for the Trigonometricall proportion is.

Sicut se habet umbra baculi, ad ipsum baculum, ita se habet umbra Turris, ad ipsam Turrim.

Therefore ſuppoſing the length of your Staff be 8. foot, the ſhadow thereof 12. and the ſhadow of the Turret 75. the height will be found to be 50. foot, as here appears.

If 12. give 8. what ſhall 75 give?

8

75 (50

12

But in caſe the air be cloudy, that you cannot obtain the ſhadow by the Sun, then (as I ſhewed in my Almanack for the year 1649.) you muſt erect you Staff perpendicularly (as before) upon ſome plain levell place, before the thing to be meaſured, which done, place your eye upon the ground in ſuch ſort that you may ſee both the top of the ſtaff, and the top of the thing to be meaſured in a ſtraight line, then compute the ſpace comprehended between the eye, and the Root or Baſe of the thing elevated (whoſe altitude is required) and multiply the ſame by the quantity of the ſtaff, dividing the Product by the diſtance which is between the eye and the Staff: the Quoting will give the altitude or height required, for the analogy is the ſame as before.

I might ſhew infinite other waies how to perform the ſame, but becauſe the help of Inſtrument is required, I purpoſely omit them, as unfit for the volume, yet if any be delighted with Recreation of this kinde, he may peruſe Piſcus his Book of Altimetricall Problemes, or Cornelius de Quadrante Geometrico, where they ſhall receive much ſatisfaction.

Of the Eclipſes happning this Year, 1651.

THis year 1651. will be no Eclipſe viſible in our Weſtern Hemiſphere, and though there be two Eclipſes of the Sun, yet neither of them can be ſeen: for the firſt happens April 9. at 10. P. M. when the Sun is under the earth, and the other October 4. a little paſt one P. M. at which time though the Sun be above our Horizon, yet the latitude of the Moon South, is ſo much encreaſed by her Parallax, that the ſum of them exceeds the aggregate of the two Semidiameters, and therefore cannot be viſible to us. And becauſe the former of theſe Eclipſes happeneth before the Suns Apogeum, and the other after; there will happen no full Moon Eclipſe this Year, according to the Rule.

Fieri poteſt ut duo inverſunia nodis proxima & ferè centralia, unius meſtris intervallo accidat, unum quidem ante Solis Apogæum, al-

terum

rerum post illud; quo casu intra eorum annum lunarem nullum contingit plenilunium eclipticum.

Of the Revolution of this Year, 1651.

BEcause the Revolutions of the Years of the world are usually accounted to take their initiation at the time of the Suns ingresse into the first point of Aries, I shall first examine the time thereof, and shew how the Planetary bodies are then posited in respect of the Earth, and shall afterwards collect such Astrologicall Aphorismes (delivered to us by the learned) as are applicable to our present purpose.

Therefore come we to the Radix of the Revolution, when the Sun appears (according to vulgar apprehension) to enter Aries, but the Earth then really entring the opposite point Libra, which either way taken, will be on Munday the 10. of March at 1.ho. 29.min. P.M. according to the middle time, as I shall here examine, juxta Harmonicon cæleste.

Time given at London, *March* 10 d. 2 h. 29 l. P. M.

	s.	d.	l:	ll.
Middle motion of the Sun from the Æquinox	11.	27.	58.	7.
Aphelion of ☉ Subtract	3.	6.	35.	1.
Reds Anamoly of the Sun	8.	21.	23.	6.
Equation of ☉ Adde		2.	1.	53.
Therefore the true place of ☉ is	0.	0.	0.	0.

	D.	ho.	l.	ll.
Middle time (therefore) at London is	10.	2.	29.	0.
Difference of Meridians of Lond. and Uppingham	Subst.		3.	0.
Middle time of ☉ ingresse at Uppingham	10.	2.	26.	0.
Equation of dayes Subtract			4.	8.
Appar. time of the ☉ ingresse at Uppingham	10.	2.	21.	56.

A Prognostication.

At which time the Heavens are disposed, as in the following Scheme.

Although many contingences may naturally be deduced from annuall Revolutions, Eclipses, great conjunctions, &c. touching the state of Kingdoms and Common-wealths, as their subversions, and the like, which the Astrologer, by the very inlight of nature, may oftentimes foresee, as not only histories, but their present times do testifie: yet nevertheless, lest I should soar too high, and be thought extravagant, I shall levell my pen in the enquiry of such matters as are more pertinent to our purpose, and shall deliver nothing but what I have both Authour and ground for in Astrologie.

In the former figure we have a very sad position, for Sol and

Lu

Luna (the two great lights of the world, Gen. 1.16.) are both collocated in the 8. house, applying to the Quadrate of Saturn and oppoſition of Mars. Some diſmall events ſurely doth attend upon ſome great ones, as the Aſtrologers (yea, the grand Maſters of the Art Haly, Bonatus, and Origen) do averre, however for my part I ſhall forbear to make any curious inquiſition who they are that are herein moſt concerned (for Sol and Luna point out Kings, Princes, Noblemen, and Magiſtrates) yet give me leave to inſert ſuch annotations, as the ancient Aſtrologians have long ſince delivered to poſterity, touching this preſent poſture. Si quando in Revolutione anni ♄ fuerit in ♐ ☉, accident Regi magni dolores & triſtitiæ, perditiones & occaſiones in ſuis ſubſtantiis, Haly. But to whom the word Regi hath relation, I cannot ſay, yet this I may conclude, that this preſent face of heaven is the Prodromus and forerunner of much evill and ſadneſſe amongſt men. Si fuerit Saturnus in undecimâ malè affiatus, habebunt homines malum, triſtitias multas, & diſtruentur eorum fiduciæ & rationes, &c. Haly fol. 370. And becauſe he is in Cancer, and Mars in Libra, it ſeems to preſage indifferent ſtore of rain, much winde and many loquits, eſpecially in the northern parts of the world, for quicquid ♄ ſignificaverit erit in parte Septentrionis, ſaith Albumaſar upon ſuch a poſture; But if we conſider Iupiter and his preſent eſſentiee in the 4. incumbuit, direct and fortunate, we may conjecture the year ſhall be reaſonable fruitfull, and the weather temperate for the moſt part, inclining now and then to drought, yet Albumaſar tells us, Si fuerit ♃ in Libra, ſignificat pluvias & ventos, nubes quoque & nebulas, &c. & multiplicabuntur latrones & abſciſores viarum, & erunt rixæ atque mala inter homines, & erunt in eis timores atque tremores, ſeu terrores. *Bonat.* 574. And hereunto Haly aſſents, Si fuerit ♃ in tertia (as now he is) non aſſociabitur unus alteri, & erit invidia & inimicitia inter eos, *Hal.* 370. *de Ind. Aſt.* I ſhall forbear to amplifie my conjecture upon this annuall Revolution, neither dare I look too high: Quod ſupra nos nihil ad nos: yet be pleaſed to hear what the ancient Aſtrologians have further obſerved upon ſuch a poſture. Sol in octavâ ſignificat depreſſionem divitum & magnatum, ſeu nobilium atque potentum, eorumque diminutionem & mortem, &c. Bonat. 577. Beſides, Caput in Tauro, ſignificat interfectionem divitum & magnatum in partibus ſeptentrionalibus, & ſignificat multitudinem diverſitatis inter divites & magnates ac ruſticos partium occidentalium, as the ſame Authour ſpeaketh. But Haly is more generall, Si fuerit Luna in 8. accident mortalitas hominibus, &c. Another ſaith, Conteſtabuntur homines falſitatem, unus ſcilicet contra alium, & rixabuntur invicem, & nitetur unus fugare alium & ejicere è loco ſuo, &c. Bonat, 578.

Thus briefly have I touched of such matters as are pretended by the present posture, yet we cannot say such things will totally come to passe, for God it is that worketh in the army of heaven, and changeth times and seasons, Dan. 2. and causeth it to rain upon one City, and not upon another, Am. 4. 7. yet cannot I perswade my self, that this great power of God doth annihilate and make void the naturall power of his creatures, which he useth as secondary and subordinate means of effecting his will and determination: è cœlis pugnarunt, Sidera ipsa è suis aggeribus pugnaverunt contra Siseram, Iud. 5. 20. which many other places of holy writ testifie, so that we need not doubt, but that the Stars do subordinately govern these inferiours, whereby many accidents may be foreseen, as experience hath oftentimes infallibly taught us, Nam quicquid cum experientia, optima rerum magistra, consentit, retinendum est; quicquid verò ei repugnat, rejiciendum.

Seeing therefore many evils are portended, let us all even Capite, from the highest to the lowest, humble our selves before almighty God, and pray unto him, that he would mercifully avert the judgements impending, and so settle and compose our distractions and unhappy differences, that they may be only for our trial and correction here, and everlasting happinesse hereafter.

Æstas, the Summer quarter doth alwaies commence when this earthly Star enters into the first point of Capricorn (the place of the Sunne from the earth being then in ☉. Cancer) making thereby our longest day and shortest night, which will come to passe on Wednesday the 11. of June, three-quarters of an hour past 5. of the clock in the afternoon, at which time the day contains with us 16. ho. 40. min. and the night 7. ho. 20. min.

Autumnus, the Autumn or Harvest quarter usually initiates, when the earth enters Aries, or (according to old conceit) when the Sun enters Libra, thereby making the daies and nights of equall length to all nations, which will be this year on Saturday the 13. of September, 3. quarters of an hour past 9. a clock in the morning.

Hyems, The Winter-quarter doth alwaies inchoate when this Secondary Planet the Earth doth enter into the first scruple of Cancer or the Sun (after old phantastic) entring Capricorn, which doth happen this year on Thursday the 11. of September near 8. a clock at night, at which time the daies are at the shortest, and the night longest, with us in these Northern Climates.

Dixi

Dixit autem Deus: Fiant luminaria in firmamento Cœli, & dividant diem & noctem, & sint in signa & tempora, & dies & annos.

Of the order and form of the visible world.

IN all ages there hath been no small dissentions amongst the learned, concerning the order, place, and situation of the visible world. The Ptolemaick Systeme was esteemed as rational by most writers, and it is still to this day a common received opinion, that the Earth is placed in the center of the Universe, and that the Planetary bodies and fixed Stars have a diurnall motion about the Earth, once in 24. hours, but how erroneous a tenent this is, the learned Astronomer well knows, however who ere thou best, that art ignorant in these Sciences, and yet desirest to know the true form and order of the visible world, and true situation of the Planetary Orbes, and the like, let me advise thee to have recourse to Philolaus his 4. Books, de Systemate mundi, wherein the learned Bullialdus most excellently confuters both the Ptolemaick, and Tychonick Systems, and clearly proveth the Sun to be in the centre of the celestiall Orbes, and the Earth to be a Planet, and move about the Sun in the middle of those Orbes of all celestiall, but because I cannot in this one Sheet make any ample discourse hereon (having other matters to treat of) I shall therefore refer my Readers (that only understands English) to the third Book of my Harmonicon Cœleste, where he shall finde such reall and evident demonstrations, as I doubt not but will make him acknowledge the verity of our Hypothesis. The principles of the doctrine there delivered, are these 6.

1. That the Sun is placed in the middle of the world, in, or about the center of the Sphere of the fixed Stars, and hath no circular motion, but centrall only.
2. That the primary Planets are each of them in their proper Orbites, moved about the Sun, and accomplish their periodicall Revolutions, most exactly in their determinate and appointed times.
3. That the earth is one of the Planets, and (by her annuall motion about the Sun) describeth her Orbe in the middle, between the Orbes of Mars and Venus.
4. That the secondary Planets are ordinarily moved about the primary Planets, respecting their bodies for their common Nodes or Centers.

5. That

5. That the secondary Planet the Moon, is moved about the Earth, as her Center, whereby the annuall motion of the Earth hath not only relation to the earth, but by consequence to the Center of the whole Sphere of the earthy Planet.

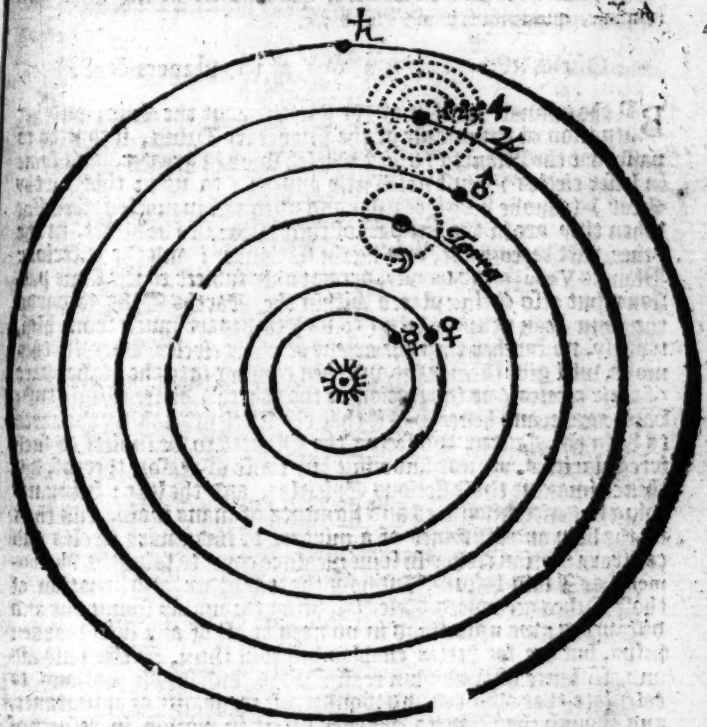
6. That as this Primary Planet, the Earth is environed with the Sphere of the Moon, so is some (if not all) of the other Primary Planets, who have in like maner their Moons or Laterones encompassing them.

That the Reader may the better discern the true intent of our Hypothesis, I have added the following Systeme, whereby you may perceive how the Sun is placed in the very Center, next to whom in the first Sphere is Mercury and then Venus.

In the third Orbe moves the Earth, and about the Earth wheels the secondary Planet the Moon in her Orbe, which is like to an Epicycle, whose Center is carried in the circumference of the annuall Orbe. Above the Orbe of the Earth is Mars, who being in conjunction with the Sun is never lesse then 11881848. Italian miles distant from the Earth, but in opposition of the Sun and shining in the night time, he is never above 34337600. Italian miles distant: and this is the reason he appears so exceeding great when he is in ☍ ☉, and so small and little when he draws near him: the true cause of which Phenomena was altogether unknown unto Ptolomie, and also to some now a dates, who are so refractory they cannot admit of truth. The 5. Sphere belongs to Jupiter, who hath 4. guardians encompassing him, and above him in the 6. Orbe moves Saturn, with his 2. Laterones, and then from his Orbe to the fixed Stars, there is an immense and vast space, but whether it be void of Stars or no, I cannot say.

The

The true Systeme of the visible world.



Doubtlesse this is the genuine Type of the visible world, by the knowledge and assistance whereof the true motions of all the Planets may exactly be described according to these Laws that nature hath assigned them, but taking this away, and faining any other, we must then fall into a multitude of most grosse and palpable absurdities, being driven to imagine and devise such fictions, circles and motions, as are not in nature, that so by the help of them we may in some measure come to supply what this really performs without them, as you may plainly understand by my Harmonicon cœleste, to which I refer you.

Quam

Quum respicio Cœlos tuos, opus digitorum tuorum: Lunam & stellas quas statuisti: quid est mortalis, quòd memor sis ejus? aut filius hominis, quod visites eum? Psal. 8. 4, 5.

Of the Retragrade motions of the Planets & C.

BY the annuall motion of the Earth about the Sun, and her situation in the middle of the Planetary Orbes, it cometh to passe that the Planets (being carried some in greater, and some in lesser circles) must necessarily appear (to us in this earthy Star) to move very irregular and unequall in motion, seeming when they are in the one part of their Orbes to be direct, in the other part retrograde, and again stationary: and the inferiour Planets Venus and Mercury, are not only subject to the same passions, but also (being placed within the Earths Orbe towards the Sun (can never be seen (to us) to depart much from him, namely, no farther then the extent of their circles wherein they move, will give them leave, and then coming into the higher part of their circles (as in relation of the Earth) do seemingly turn back again, and hence was it that the Ancients taking the earth to be in the Center, and seeing the Planets to be subject to such irregularities, yet not knowing any cause or reason thereof, did thence imagine those fictious Epicicles, and the like: being nothing but meer monsters and figments of mans brain, and thus by the help and assistance of a mixture of imaginary circles and contrary motions, they in some measure come to salve the Phænomena, as I said before. But now the true order and situation of those Orbes accounted Celestial, being throughly found out and discovered: we now stand in no need at all of any such wooden helps, but are far better enabled without them, by the only aid and assistance of their own reall Orbes, and simple motions, to calculate that admired and wonderfull inequality of appearance, and though the Planets are ever direct in motion in respect of their own Orbites, yet to us in this Earthly Star, appearing many times otherwise: I shall here give you the true and distinct intervals of time, wherein they will be observed to be Retrograde this present year 1651.

The

The Retrograde motions of the Planets this Year, 1651. as we ſhall behold them from this primary Planet, the Earth.

Saturn is retrograde { 1. From Octob. 17. 1650. untill Feb. 26. 1651. 2. From Nov. 1. till March 10. 1652.

Iupiter is retrograde from March 15. untill July 28.

Mars is retrograde from February 14. untill May 4.

Venus is retrograde from Ianuary 14. to February 24.

Mercury is retrograde { 1. From February 15. to March 10. 2. From Iune 13. to July 6. 3. From Octo 6. to the 29. of the ſame.

Extrahæc tempora ſeriem ſignorum obſervant.

The Orientall and Occidentall riſing and ſetting of the 5. Planets, before and after the Sun this year.

SAturn is an eventing Star, ſhining after the Suns going down, from the beginning of the year, untill the 1. of July, at which time the Sun and he are in coniunction, but from thence he is a morning Star, and riſeth before the Sun, untill the 5. of Ianuary, 1652.

Iupiter is a bright morning Star, riſing before the Sun, from the 2. of November 1650. untill the 17 of May this year, and from thence he is a bright eventing Starre, until the 3. of December, then a Morning Star again untill the 19. of Iune 1652.

Mars is a morning Star from the 1. of April laſt year 1650. to the 23. of March this year 1651. and from thence he is an eventing Star till the 28. of May 1652.

Venus the moſt glorious Star in the Firmament, is an eventing Star from the 20. of April 1650. to the 4. of February this year, ſetting not long after the Suns going down, but being then with the Sun, ſhe becometh a bright morning Star, and ſo continueth till the 17. of November, and from thence to the 4. of September, 1652. ſhe is an eventing Star, ſhining very gloriouſly in the Weſt, after Sun-ſet.

Mercury is an Evening Star, ſetting after the Sun, from the 2. of Ianuary to the 24. of February, then he is a morning Star to the end of April, then again he is an Evening Star till the 26. of Iune, then again a morning Star untill the 16. of Auguſt, then an Evening Star untill the 19. of Octobor, and then again a Morning Star till the 15. of December, but from thence to the 7. of February 1652. he is an Evening Star.

A Prognostication.

A Table shewing the hour and minute of the Seven Stars, coming to the South every 5th day of the moneth this year 1650.

Moneths.	Daies of the Moneth.															
	1		5		10		15		20		25		30	
	H.	m.	H.	m.	H.	m.	H.	m.	H.	m.	H.	m.	H.	m.
January	7	A. 57	7	34	7	18	6	57	6	36	6	15	5	55
February	5	A. 43	5	32	5	13	4	54	4	37	4	18		
March	4	A. 23	3	47	3	29	3	11	2	52	2	34	2	16
April	2	A. 10	1	55	1	37	1	18	0	59	0	40	0	21
May	0	A. 17	0	B. 1	11	41	11	21	11	1	10	41	10	21
June	10	B. 12	9	55	9	35	9	13	8	53	8	33	8	13
July	8	B. 7	7	52	7	33	7	14	6	56	6	39	6	20
August	8	B. 6	5	50	5	32	5	13	4	55	4	38	4	19
September	4	B. 12	3	58	3	41	3	23	3	5	2	46	2	28
October	2	B. 23	2	8	1	49	1	30	1	10	0	51	0	31
November	0	B. 23	0	6	11	A. 45	11	20	10	58	10	37	10	16
December	10	A. 15	9	50	9	32	10	13	8	50	3	27	8	7

Finde the Moneth on the left hand, and the day on the head, and in the angle of meeting you have the time of their Southing, and note this, that A. stands for after noon, B. before noon, therefore observe what letter you finde the first day of the Moneth, that takes place every other day, unlesse you finde it changed. As in May under 1. is A. for after noon, but under the 5. day is B. So that from thence to the Moneths end, their coming to the South is before noon.

To finde the rising and setting of the Seven Stars.

BY the following Table you are to finde their semidiurnall Arch, which if you deduct from the time of their coming to the South, the residue will be the time of their rising, but adding them together, the sum will be the time of their setting.

Example. The 5. of October the time of their rising and setting is required, on which day I finde by the former Table that they come to the South 2. ho. 3. min. before noon, from which because I cannot deduct their semidiurnall Arch, I adde to 12. ho. and from the sum 14. ho. 8. min. I take the semidiurnall Arch 8. ho. 13. min. and the residue 5. ho. 55. min. is the time of their rising after noon. On the contrary I adde the semidiurnal Arch 8 ho. 13. min. to the time of their culmination. 2. ho. 8. min. and the aggregate 10. ho. 21. min. is the time of their setting in the morning the said 5. of October.

A Table ſhewing the ſemidiurnall Arch, and time when any of the Stars therein expreſſed, will come to the South, either before or after the 7. Stars, being of ſpeciall uſe to finde the hour of the night.

The Names of the Stars.	Time of Southing. Ho.	Min.		Semid. Arch. Ho.	Min.
The Girdle of Andromeda.	2	37	B	10	2
Whales Tail.	1	43	B	5	2
Bright ✶ of ♈.	1	39	B	8	5
The brightneſſe of the 7. Stars.	0	0	I	8	13
Aldebaran the Buls eye.	0	49	A	7	26
Syrius the greater Dogge.	3	3	A	4	31
Procyon, the leſſer Dogge.	3	54	A	6	32
The North Aſſelli.	4	55	A	8	11
The South Aſſelli.	4	57	A	7	48
Heart of Hydra.	5	54	A	4	22
Lyons heart.	6	23	A	7	15
The Virgins Spick.	9	40	A	5	11
Arcturus.	10	33	A	8	0
South Ballance.	11	5	A	7	18
North Ballance.	11	31	A	5	18
Antares, the Scorpions heart.	11	19	B	3	27
Right ſhoulder of Hercules.	11	12	B	8	8
Head of Hercules.	10	28	B	7	20
Left ſhoulder of Hercules.	10	27	B	8	32
Bright ✶ of Lyra.	9	2	B	Set	not.
Vultures tail.	8	10	B	7	12
Swans tail.	6	57	B	Set	not.
The girdle of Cepheus.	6	3	B	Set	not.
The mouth of Pegaſus.	6	0	B	6	43
Formahant.	4	49	B	3	32
Scheat.	4	40	B	8	29
Marchab Pegaſi.	4	39	B	7	12
Head of Andromeda.	3	37	B	8	48

To

To finde the time of the coming to the South of any of the Stars expressed in the former Table.

KNowing the time of the 7. Starres coming to the South by the former of the preceding Tables, you are then by the latter of the same Tables to seek how many ho. and min. the Star given comes to the South before or after the 7. Stars. If it comes to the South before the 7. Stars, you are to deduct the hours and min. found in the Table from the time of their coming to the South: but if it comes to the South after, you are to make addition, for so will the sum or difference be the true time of the Culmination of the said Star.

Example. The 5. of October before given, we found that the 7. Stars will come to the South at 2.ho. 8.min. before noon, and in the second Table I finde the greater Dogge comes to the South, 3.ho. 3.min. after, Therefore I adde these 3.ho. 3.min to 2.ho. 8.min. and the summe 5.ho. 11.min. is the time of the greater Dog's coming to the South the same morning.

To finde the time of the rising and setting of any of the said Stars.

NOw that you may know when the greater Dog riseth, deduct the Semidiurnal Arch 4.ho 31.min. out of the time of the Culmination, 5.ho 11.min. and the remainder is 0.ho. 40.mi. which sheweth that the said Star riseth the said 5 of October, 40.min. after midnight.

And that you may also know when it sets, adde the said semidiurnall Arch 4. ho. 31. min. to the time of the Culmination, 5.ho. 11. min. and the aggregate is 9.ho. 42 min. which tels me, that the said Star sets 42. mi. past 9. a clock the same morning.

The like is to be observed of any other Star placed in the Table.

Till the next year, *Farewell.*

VIN. WING.

Courteous Readers,

There is now upon the publishing (if not already abroad) an absolute and entire piece of Astronomy, entituled *Harmonicon Cœleste*: wherein is succinctly handled the Trigonometricall parts generally propounded, and particularly applied to all Questions relating to the Diurnall motion, especially respecting, and truly subservient to the main doctrine of the second motions of the Luminaries and the other Planets, together with their affections, as Eclipses, &c. Grounded upon the most rational *Hypothesis*, yet constituted and compared throughout with the best observations that are extant, especially those of the noble Dane, *Tycho Brahe*, and other more modern Observators: and intended principally for our English Nation, and commended as necessary and usefull to all Scholars, Mariners, Astrologers, Divines Physicians, Historiographers, and Poets, &c. and to all other that desire to attain to the knowledge of Astronomy. It being the first Book of that nature yet published in the English Tongue.

Composed by Vin. Wing.